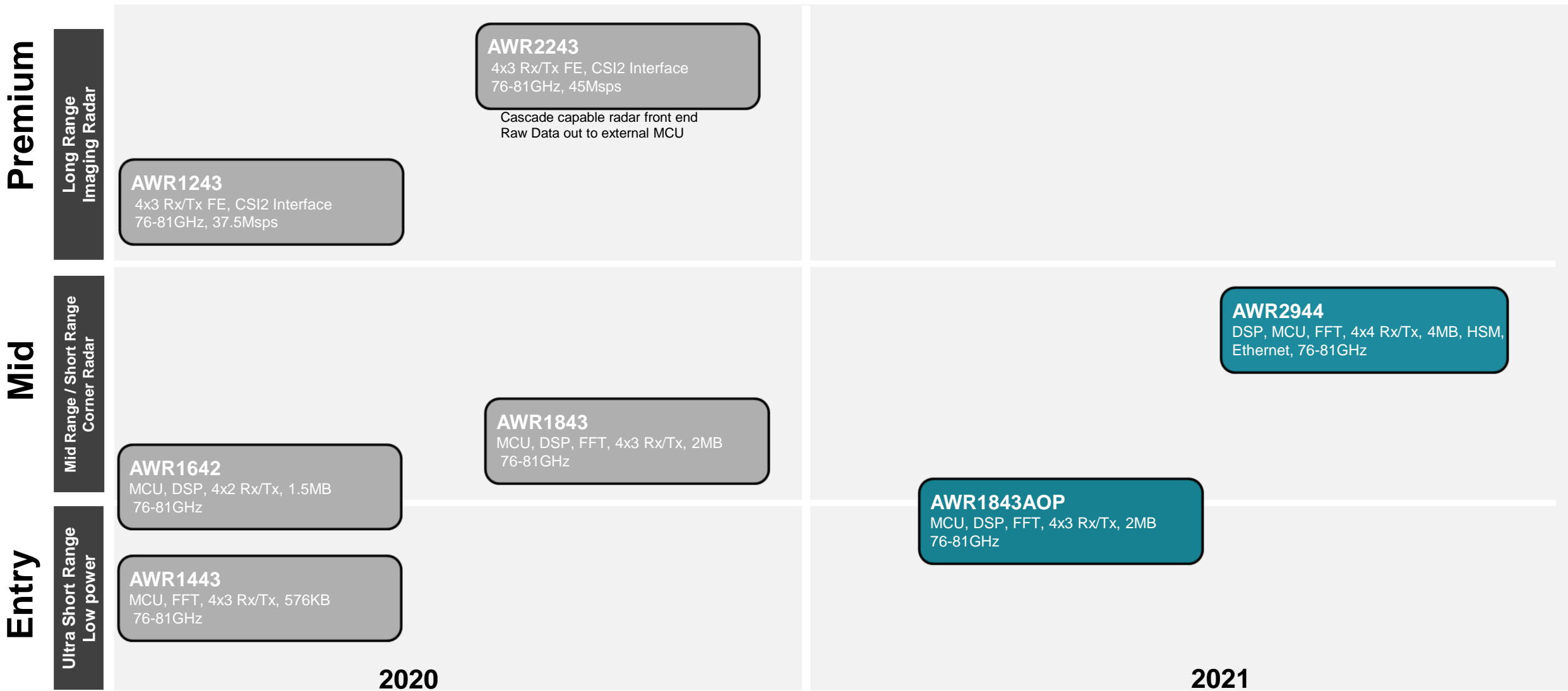


# Automotive Radar Portfolio Overview

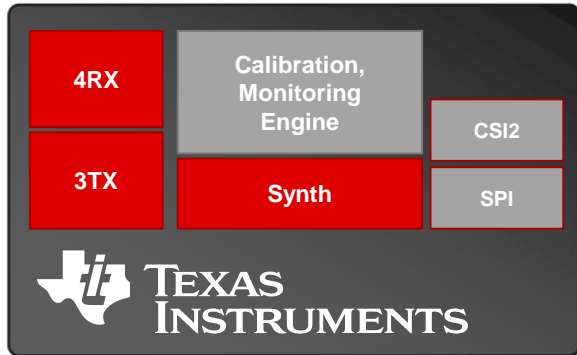
# Automotive Radar Portfolio

Production
  Sampling



# Generation 1 mmWave Sensors (1/2)

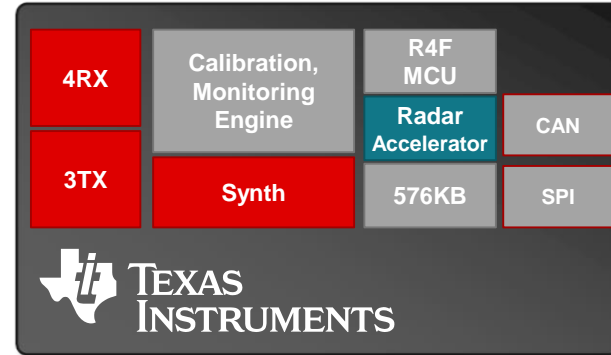
## AWR1243



### Radar Front-End

- **Use Cases**
  - Front Long Range Radar
  - Medium Range Radar
  - Short Range Radar
- **Configuration**
  - AWR1243 + External MCU Smart Radar
- **ASIL-B capable**

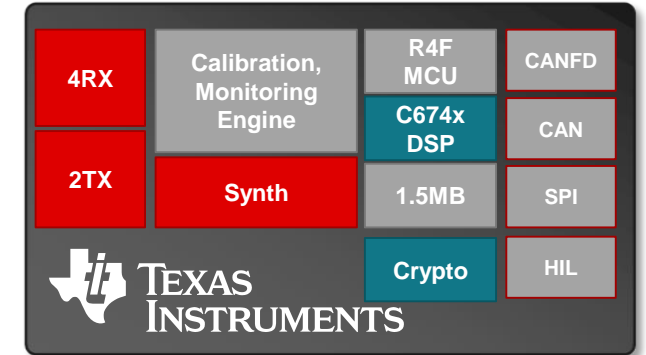
## AWR1443



### Single Chip Radar

- **Use Cases**
  - Proximity Sensor
  - Obstacle detection sensor
  - Occupant detection
  - Driver monitoring
- **Configuration**
  - AWR1443 Single Chip Smart Radar

## AWR1642

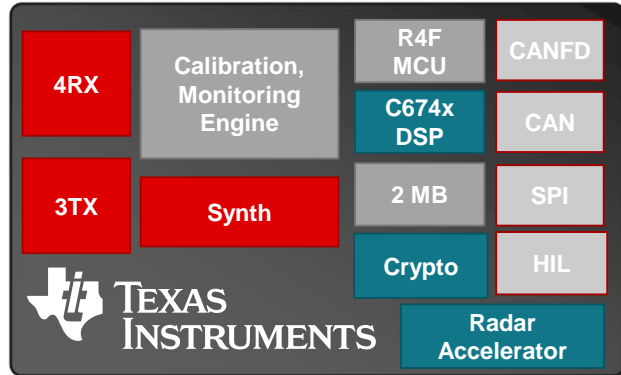


### Single Chip Radar

- **Use Cases**
  - Ultra Short Range Radar
  - Short Range Radar
- **Configuration**
  - AWR1642 Single Chip Smart Radar
- **ASIL-B capable**

# Generation 1 mmWave Sensors (2/2)

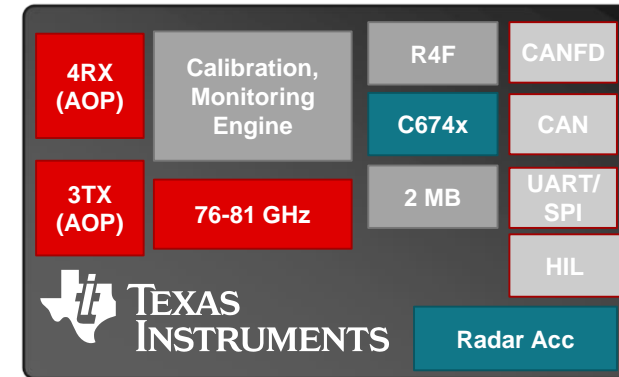
## AWR1843



### Single Chip Radar

- **Use Cases**
  - Short Range Radar
  - Medium Range Radar
  - Automated Parking Sensor
- **Configuration**
  - AWR1843 Single Chip Smart Radar
- **ASIL-B capable**

## AWR1843AOP

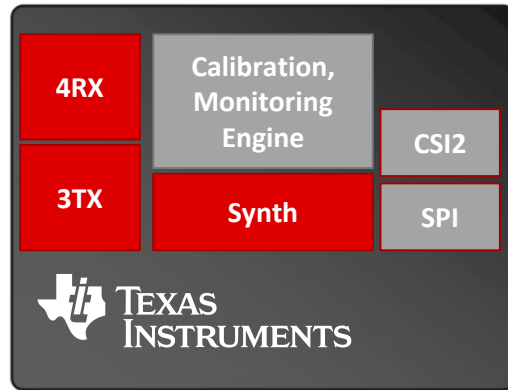


### Single Chip Radar

- **Use Cases**
  - Obstacle Detection Sensor
  - Ultra Short Range Radar
  - Automated Parking & Park Assist Sensor
- **Configuration**
  - AWR1843AOP Single Chip Smart Radar
- **ASIL-B capable**

# Generation 2 mmWave Sensors

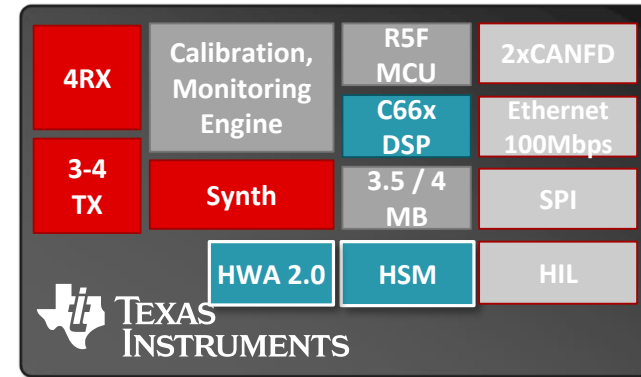
## AWR2243



### Radar Transceiver

- **Use Cases**
  - Front Long Range Radar
  - Imaging Radar
  - Medium Range Radar
- **Configuration**
  - AWR2243 + External MCU Smart Radar
- **ASIL-B capable**

## AWR2943/4



### Single Chip Radar

- **Use Cases**
  - High performance corner radar (Medium Range Radar),
  - Entry-level Front Long Range Radar
  - NCAP+R79 corner radar
- **Configuration**
  - AWR2944 Single Chip Smart Radar
- **ASIL-B capable**

# Start NOW

mmWave software development kit (SDK)



System Performance - Range, Max Velocity, Angle Accuracy, Angular Resolution etc. with Evaluation Boards ([AWR1642BOOST](#) [AWR1843BOOST](#) [AWR1243BOOST](#) [AWR2944EVM](#) [Imaging Radar Reference Design](#)) and [mmWave SDK](#), [mmWave DFP](#) & [mmWave Studio](#)

## EVALUATE



Design schematic, layout, thermal design with Evaluation Board Design Files ([AWR1642BOOST](#) [AWR1843BOOST](#) [AWR2944EVM](#) [AWR1243BOOST](#) [Imaging Radar Reference Design](#)), Hardware Collaterals ([AWR1642](#) [AWR1843](#) [AWR1243](#) [AWR2944](#))

## HW DESIGN



Develop Application software, Port Autosar, Drivers (CAN-FD, CAN, SPI etc.), Safety & Security Functionality with [mmWave SDK](#), [MCAL for Autosar](#)

## DRIVERS & SW



Capture Raw Data over Ethernet using [DCA1000](#) Board, Existing algorithm libraries for Peak Grouping, Static Clutter Removal, Angle Of Arrival Estimation, FFT, CFAR-CA and CFAR-OS, DBScan Clustering, Tracking & Windowing with [mmWave SDK](#)

## ALGORITHMS



[E2E Forum](#) for prompt customer support with less than 1 day first response time [on-line, on-demand video training](#)

## SUPPORT

**THANKS**